sites in the country for tidal power generation. No tidal power plant has been installed in the country so far. The Ministry, after carrying out a Feasibility Study, have got prepared a Detailed Project Report through West Bengal Renewable Energy Development Agency, Kolkata for a 3 MW capacity Tidal Power Plant proposed to be set up at Durgaduani Creek in Sundarbans area of West Bengal. Based on the recommendations of the Detailed Project Report, the proposal for the country's first tidal power plant is being processed by the Ministry. The experience gained in this project would be utilized in developing other potential sites for tidal power generation in the country;

Production and consumption of Solar Energy

†832. SHRIMATI KUM KUM RAI: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the State-wise details of production, consumption of solar energy under non-conventional energy sources during last three years;

(b) whether fossil fuel is being developed as an alternate to petrol and diesel;

(c) if so, the details thereof; and

(d) if not, the reasons therefor?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) The Ministry is implementing various programmes which include solar photovoltaics, solar power, solar photovoltaic pumps, solar cookers etc. for production and utilization of solar energy in the country. The details of solar energy systems/devices installed State-wise during the last three years are given in Statement enclosed (*See* below).

(b) to (d) The Ministry does not implement any programme to develop another fossil fuel as an alternate to petrol and diesel. However, this Ministry undertakes R&D projects aimed at developing technologies for surface transportation based on alternate fuels *i.e.* fuel cells, hydrogen, bio-fuels and electric vehicles as alternatives to replace petrol and diesel.

†Original notice of the question was received in Hindi.

Statement

Regarding production and consumption of Solar energy

State-wise Solar Energy Systems/Devices installed during the last three years i.e. 1999-2000, 2000-2001 and 2001-2002

Sl. No.	State/UT	Solar Photo-voltaic Power (KWP)	SPV Pumps (Nos.)	Solar Cookers (Nos.)	Solar Photovoltaic Systems			
					SLS (Nos.)	HLS (Nos.)	SL. (Nos.)	PP (Nos.)
1.	Andhra Pradesh	275.00	141	305	413	240	19429	0
2.	Arunachal Pradesh	0.00	0	0	0	341	1472	0
3.	Assam	0.00	0	0	0	923	241	0
4.	Bihar & Jharkhand	0.00	16	0	82	526	10150	0
5.	Goa	0.00	1	94	39	20	398	0
6.	Gujarat	0.00	6	17988	312	2331	21636	0
7.	Haryana	0.00	82	1249	271	7872	15431	0
8.	Himachal Pradesh	0.00	0	1713	746	6455	7676	0
9.	Jammu & Kashmir	0.00	1	0	30	6089	4677	40
10.	Karnataka	0.00	102	0	294	4128	6436	6
11.	Kerala	25.00	204	0	71	7303	13966	40
12.	Madhya Pradesh & Chhattisgarh	0.00	15	2802	618	1244	2551	0
13.	Maharashtra	75.00	38	3979	315	550	4075	0
14.	Manipur	0.00	0	0	0	600	483	0
15.	Meghalaya	0.00	5	0	0	270	2170	0
16.	Mizoram	0.00	0	0	49	136	3450	0
17.	Nagaland	0.00	0	0	0	135	95	0
18.	Orissa	0.00	1	80	2530	1814	3129	3
19.	Punjab	100.00	767	5031	800	920	7995	15
20.	Rajasthan	50.00	28	100	680	19642	4664	25.8
21.	Sikkim	0.00	0	0	0	200	450	0
22.	Tamil Nadu	0.00	146	0	344	469	8865	0
23.	Tripura	0.00	0	30	420	800	13668	0
24.	Uttar Pradesh & Uttranchal	100.00	65	6345	400	32213	24797	0
25.	West Bengal	25.00	1	2354	233	19023	474	214
26.	Andaman & Nicobar Islands	0.00	0	0	43	15	371	0
27.	Chandigarh	0.00	5	0	0	175	900	0
28.	Dadra & Nagar Haveli	0.00	0	0	0	0	0	0
29.	Daman & Diu	0.00	0	0	0	0	0	0
30.	Delhi	0.00	16	0	0	375	1939	10
31.	Lakshadweep	400.00	0	0	82	13	4453	0
32.	Pondicherry	0.00	6	0	0	0	110	0
33.	Others	0.00	0	6090	0	476	19925	0
	TOTAL	1050.00	1647	48160	8772	115298	206076	353.8

KWp=Kilo Watt Peak; SPV=Solar Photovoltaic; SLC=Street Lighting Systems; HLS=Home Lighting Systems; SL=Solar Lanterns; PP=Power Packs (Stand alone)